http://www.tutorialspoint.com/ant/ant build files.htm

Typically, Ant's build file, **build.xml** should live in the project's base directory. Although you are free to use other file names or place the build file in some other location.

For this exercise, create a file called build.xml anywhere in your computer.

Please note that there should be no blank lines or whitespaces before the xml declaration. If you do, this may cause an error message when running the ant build - *The processing instruction target matching "[xX][mM][lL]" is not allowed*.

All buildfiles require the **project** element and at least one **target** element.

The XML element **project** has three attributes :

Attributes	Description
name	The Name of the project. (Optional)
default	The default target for the build script. A project may contain any number of targets. This attribute specifies which target should be considered as the default. (Mandatory)
basedir	The base directory (or) the root folder for the project. (Optional)

A target is a collection of tasks that you want to run as one unit. In our example, we have a simple target to provide an informational message to the user.

Targets can have dependencies on other targets. For example, a **deploy** target may have a dependency on the **package** target, and the **package** target may have a dependency on the **compile** target and so forth. Dependencies are denoted using the **depends** attribute. For example:

```
<target name="deploy" depends="pacakge">
    ....
</target>
<target name="pacakge" depends="clean,compile">
    ....
</target>
<target name="clean" >
    ....
</target>
<target name="compile" >
    ....
</target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></target></tarre>
```

The target element has the following attributes:

Attributes	Description
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name	The name of the target (Required)
depends	Comma separated list of all targets that this target depends on. (Optional)
description	A short description of the target. (optional)
if	Allows the execution of a target based on the trueness of a conditional attribute. (optional)
unless	Adds the target to the dependency list of the specified Extension Point. An Extension Point is similar to a target, but it does not have any tasks. (Optional)

The **echo** task in the above example is a trivial task that prints a message. In our example, it prints the Hello World message.

To run the ant build file, open up command prompt and navigate to the folder where the build.xml resides, and type **ant info**. You could also just type **ant** instead. Both will work, because **info** is the default target in the build file. You should see the following output:

```
C:\>ant
Buildfile: C:\build.xml
info:
     [echo] Hello World - Welcome to Apache Ant!

BUILD SUCCESSFUL
Total time: 0 seconds

C:\>
```